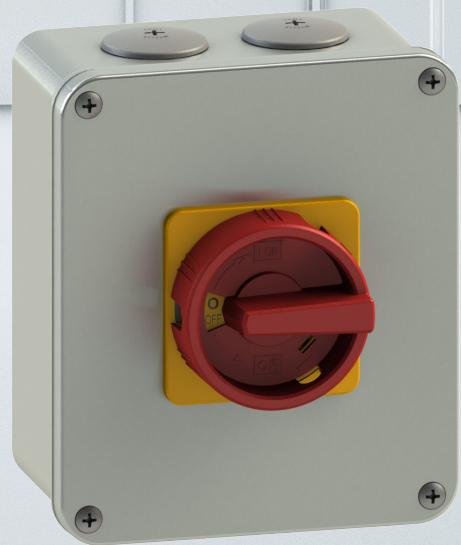
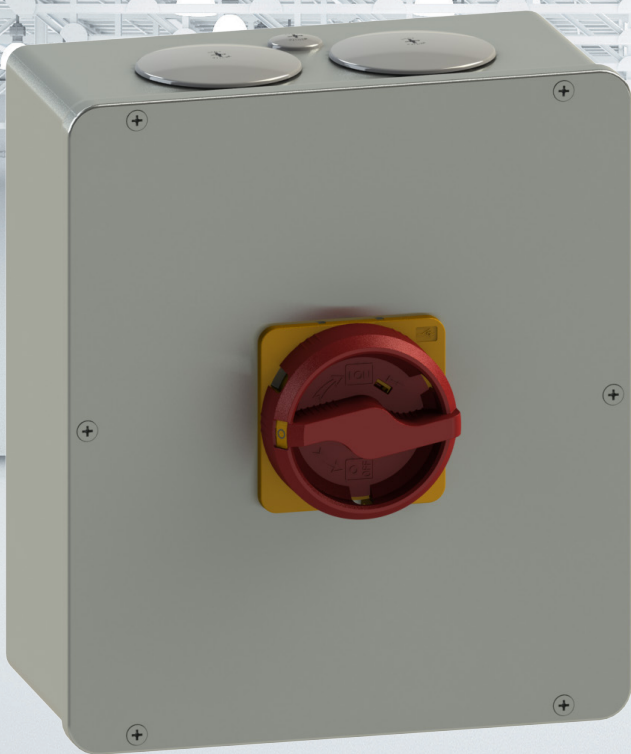
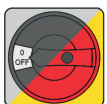


Disconnect Switches ML 1-3 Aluminium Enclosure - *NEMA Type 4X*



UL50E Approved - NEMA Type 4X



Available colours for all housing designs



Switch to Quality!

Komplett-Typen Baureihe ML - Aluminiumgehäuse

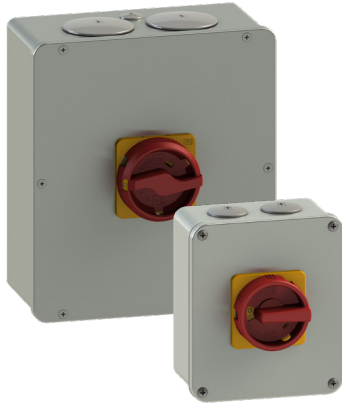
Complete types Series ML - Aluminium enclosure

Reparatur- und Wartungs-Schalter

als Hauptschalter im Aluminiumgehäuse
in der Ausführung: Griff / Front: schwarz/grau = sw/gr
oder als Not-Aus-Schalter im Aluminiumgehäuse
in der Ausführung: Griff / Front: rot/gelb = rt/ge

Repair- / Maintenance switch

as Main Switch in aluminium enclosure
handle/front in black/grey bk/gr or
as Emergency-Off Switch in aluminium enclosure
handle/front in red/yellow rd/ye



Aluminiumgehäuse mit Vorhängeschlossperre für 3 Vorhängeschlösser

mit Bügeldurchmesser bis 9 mm,
ML-Schalter mit Klemmenabdeckung und Deckelkupplung
Griff in rot/gelb rt/ge oder schwarz/grau sw/gr
Äußerst robust und schlagfest
Montagefertige Lieferung mit Verschlusschrauben ohne Kabelverschraubungen.
Lackierung nach Kundenwunsch möglich (Standard: Aluminium natur)
Hohe Schutzart

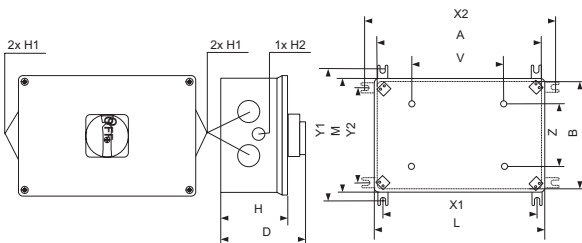
Aluminium enclosure with lockout handle for 3 padlocks

with shackle diameter up to 9 mm,
ML-switches with terminal cover
handle/front plate red/yellow rd/ye or black/grey bk/gr
Extremely robust and impact resistant
Ready to mount, including sealing plug screws without cable glands
Painting according to customer requirements (standard: aluminium raw)
High degree of protection

IP 65

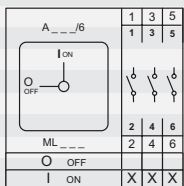
IP65

Abmessungen / Dimensions



Baureihe Series	Abmessungen (mm) Dimensions (mm)												
	A	B	H	L	M	X1	Y1	X2	Y2	Z	V	D	H1
AL-2	160	135	81	167	142	147	149	174	122	104	88	114	M32
AL-3	185	160	96	192	167	172	174	199	147	129,5	114,5	129	M32
AL-4	247	212	102	254	219	234	226	261	199	178	172	140	M40
AL-5	295	255	130	302	262	282	269	309	242	215	230	168	M63

Schaltprogramm Contact arrangement	UL LISTED		Dauerstrom I _{th} Rated Uninterrupted current I _{th}	Leistung Rating AC 3	Leistung Rating AC 23A	Baureihe Series	Griff-/ Frontschild handle/ front plate	Typ Type	Best.Nr. Part #
	A	kW	kW						
3-polig 3-pole	25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-AL2-2020U	MZ 33 162D		
	25	7,5	11	ML1	sw/si bk/si	ML1-025-V-AL2-2021U	MZ 33 163D		
	40	11	15	ML1	rt/ge rd/ye	ML1-040-V-AL3-2020U	MZ 35 162D		
	40	11	15	ML1	sw/si bk/si	ML1-040-V-AL3-2021U	MZ 35 163D		
	63	22	30	ML2	rt/ge rd/ye	ML2-063-V-AL4-1850	MZ 37 162		
	63	22	30	ML2	sw/si bk/si	ML2-063-V-AL4-1851	MZ 37 163		
	63	30	37	ML2	rt/ge rd/ye	ML2-080-V-AL5-1850	MZ 39 162		
	63	30	37	ML2	sw/si bk/si	ML2-080-V-AL5-1851	MZ 39 163		
	100	37	45	ML3	rt/ge rd/ye	ML3-125-V-AL5-1850	MZ 41 162		
	100	37	45	ML3	sw/si bk/si	ML3-125-V-AL5-1851	MZ 41 163		



Schaltprogramm Contact arrangement	UL LISTED		Dauerstrom Rated Uninterrupted current I_{th}	Leistung Rating AC 3	Leistung Rating AC 23A	Baureihe Series	Griff-/ Frontschild handle/ front plate	Typ Type	Best.Nr. Part #
	A	kW	kW						
3-polig + 1S + 1Ö 3-pole + 1NC + 1NO	A ___ /102		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-AL2-2020U-HI	MZ 33 164D
	I ON		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-AL2-2021U-HI	MZ 33 165D
	O OFF		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-AL3-2020U-HI	MZ 35 164D
	I ON		40	11	15	ML1	sw/si bk/si	ML1-040-V-AL3-2021U-HI	MZ 35 165D
	O OFF		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-AL4-1850-HI	MZ 37 164
	I ON		63	22	30	ML2	sw/si bk/si	ML2-063-V-AL4-1851-HI	MZ 37 165
	O OFF		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-AL5-1850-HI	MZ 39 164
	I ON		63	30	37	ML2	sw/si bk/si	ML2-080-V-AL5-1851-HI	MZ 39 165
	O OFF		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-AL5-1850-HI	MZ 41 164
	I ON		100	37	45	ML3	sw/si bk/si	ML3-125-V-AL5-1851-HI	MZ 41 165
4-polig 4-pole	A ___ /143		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-AL2-2020U-NV	MZ 33 166D
	I ON		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-AL2-2021U-NV	MZ 33 167D
	O OFF		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-AL3-2020U-NV	MZ 35 166D
	I ON		40	11	15	ML1	sw/si bk/si	ML1-040-V-AL3-2021U-NV	MZ 35 167D
	O OFF		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-AL4-1850-NV	MZ 37 166
	I ON		63	22	30	ML2	sw/si bk/si	ML2-063-V-AL4-1851-NV	MZ 37 167
	O OFF		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-AL5-1850-NV	MZ 39 166
	I ON		63	30	37	ML2	sw/si bk/si	ML2-080-V-AL5-1851-NV	MZ 39 167
	O OFF		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-AL5-1850-NV	MZ 41 166
	I ON		100	37	45	ML3	sw/si bk/si	ML3-125-V-AL5-1851-NV	MZ 41 167
4-polig + 1S + 1Ö 4-pole + 1NC + 1NO	A ___ /374		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-AL2-2020U-NV-HI	MZ 33 168D
	I ON		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-AL2-2021U-NV-HI	MZ 33 169D
	O OFF		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-AL3-2020U-NV-HI	MZ 35 168D
	I ON		40	11	15	ML1	sw/si bk/si	ML1-040-V-AL3-2021U-NV-HI	MZ 35 169D
	O OFF		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-AL4-1850-NV-HI	MZ 37 168
	I ON		63	22	30	ML2	sw/si bk/si	ML2-063-V-AL4-1851-NV-HI	MZ 37 169
	O OFF		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-AL5-1850-NV-HI	MZ 39 168
	I ON		63	30	37	ML2	sw/si bk/si	ML2-080-V-AL5-1851-NV-HI	MZ 39 169
	O OFF		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-AL5-1850-NV-HI	MZ 41 168
	I ON		100	37	45	ML3	sw/si bk/si	ML3-125-V-AL5-1851-NV-HI	MZ 41 169
6-polig 6-pole	A ___ /10		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-AL3-2020U-6P	MZ 33 173D
	I ON		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-AL3-2021U-6P	MZ 33 174D
	O OFF		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-AL3-2020U-6P	MZ 35 173D
	I ON		40	11	15	ML1	sw/si bk/si	ML1-040-V-AL3-2021U-6P	MZ 35 174D
	O OFF		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-AL4-1850-6P	MZ 37 173
	I ON		63	22	30	ML2	sw/si bk/si	ML2-063-V-AL4-1851-6P	MZ 37 174
	O OFF		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-AL5-1850-6P	MZ 39 173
	I ON		63	30	37	ML2	sw/si bk/si	ML2-080-V-AL5-1851-6P	MZ 39 174
	O OFF		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-AL5-1850-6P	MZ 41 173
	I ON		100	37	45	ML3	sw/si bk/si	ML3-125-V-AL5-1851-6P	MZ 41 174
6-polig + 1S + 1Ö 6-pole + 1NC + 1NO	A ___ /351		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-AL3-2020U-6P-HI	MZ 33 175D
	I ON		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-AL3-2021U-6P-HI	MZ 33 176D
	O OFF		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-AL3-2020U-6P-HI	MZ 35 175D
	I ON		40	11	15	ML1	sw/si bk/si	ML1-040-V-AL3-2021U-6P-HI	MZ 35 176D
	O OFF		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-AL4-1850-6P-HI	MZ 37 175
	I ON		63	22	30	ML2	sw/si bk/si	ML2-063-V-AL4-1851-6P-HI	MZ 37 176
	O OFF		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-AL5-1850-6P-HI	MZ 39 175
	I ON		63	30	37	ML2	sw/si bk/si	ML2-080-V-AL5-1851-6P-HI	MZ 39 176
	O OFF		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-AL5-1850-6P-HI	MZ 41 175
	I ON		100	37	45	ML3	sw/si bk/si	ML3-125-V-AL5-1851-6P-HI	MZ 41 176

Auxiliary contact (HI) 1NO + 1NC

Snap on right or left side of series ML For ML1-3 also usable if a SK- or NV contact is installed. Main contacts and NO contact simultaneous.

auxiliary switch for series ML1 to ML3			Rated operational current I_o	120 V	A	6
auxiliary switch acc. UL508				600 V	A	1,2
Rated uninterrupted current I_u open = I_{th}	A	12	Cable cross section sol		AWG-No.	16
I_{th} encapsulated	A	12	Cable cross section str		AWG-No.	14
Rated insulation voltage U_i (III/3)	V	600	Terminal screws (PoZidrive)		M3	
			Torque terminal screws		Nm	0,6

Specifications

			ML1-025	ML1-040	ML2-063	ML2-080	ML3-125
Rated operating current I_e AC-21A	A		25	40	63	80	125
Rated voltage U_e	V		690	690	690	690	690
Rated uninterrupted current (open) $I_u=I_{th}$	A		25	40	63	80	125
Conventional enclosed thermal current I_{the}	A		25	40	63	63	100
Rated insulation voltage U_i	V				690	690	800
Insulation group C under VDE 0110			690	690			
Making/breaking capacity							
Service category AC-3							
Motor switch	230 V 3~	kW	5,5	7,5	15	18,5	22
for optional	400 V 3~	kW	7,5	11	22	30	37
switching	690 V 3~	kW	7,5	11	22	30	45
Service category AC-23A/B							
Motor switch	230 V 3~	kW	7,5/-	11/-	-/18,5	-/22	-/25
Main switch	400 V 3~	kW	11/-	15/-	-/30	-/37	-/45
Maintenance switch	690 V 3~	kW	11/-	15/-	-/30	-/37	-/45
Service category AC-22A/B							
Motor switch	230 V 3~	A	25/-	40/-	63/-	-/-	-/-
	400 V 3~	A	25/-	40/-	63/-	-/68	-/125
	690 V 3~	A	25/-	40/-	63/-	-/-	-/125
Rated conditional short-circuit current	kA		10	10	10	10	10
Rated short-time with stand current I_{cw} 1 sec	kA						
Max. Back up fuse Service class gG	A		50	50	63	80	125
Disconnect characteristic up to 690 V~	V		690	690	690	690	690
Terminal cross section							
single or multi-core	min./max.	mm ²	2,5 - 16	2,5 - 16	2,5 - 35	2,5 - 35	6 - 70
finely stranded with sleeve	min./max.	mm ²	1,5 - 10	1,5 - 10	1,5 - 25	1,5 - 25	6 - 50
Terminal screws			M4	M4	M5	M5	M6
Mechanical life switching cycles			30.000	30.000	30.000	30.000	30.000
Ambient temperature open	C°		+60/-25	+60/-25	+70/-25	+70/-25	+75/-25
max./min. encapsulated	C°		+45/-25	+45/-25	+50/-25	+50/-25	+55/-25
General purpose 3-phase							
rated operational current	A		25	40	63	80	125
	V		600	600	600	600	600
Motor 3-phase							
	AC-3						
	220/240 V 3~	hp	7,5	10	15	20	25
	440/480 V 3~	hp	10	20	30	40	50
	550/600 V 3~	hp	10	20	30	40	50
Motor 1-phase							
	AC-3						
(2 pole)	110/120 V 3~	hp	1	1,5	3	4	6
	220/240 V 3~	hp	2	3	7,5	10	15
Cable cross section	AWG-No		14 - 8	14 - 8	14 - 2	14 - 2	8 - 10

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